FIG.1

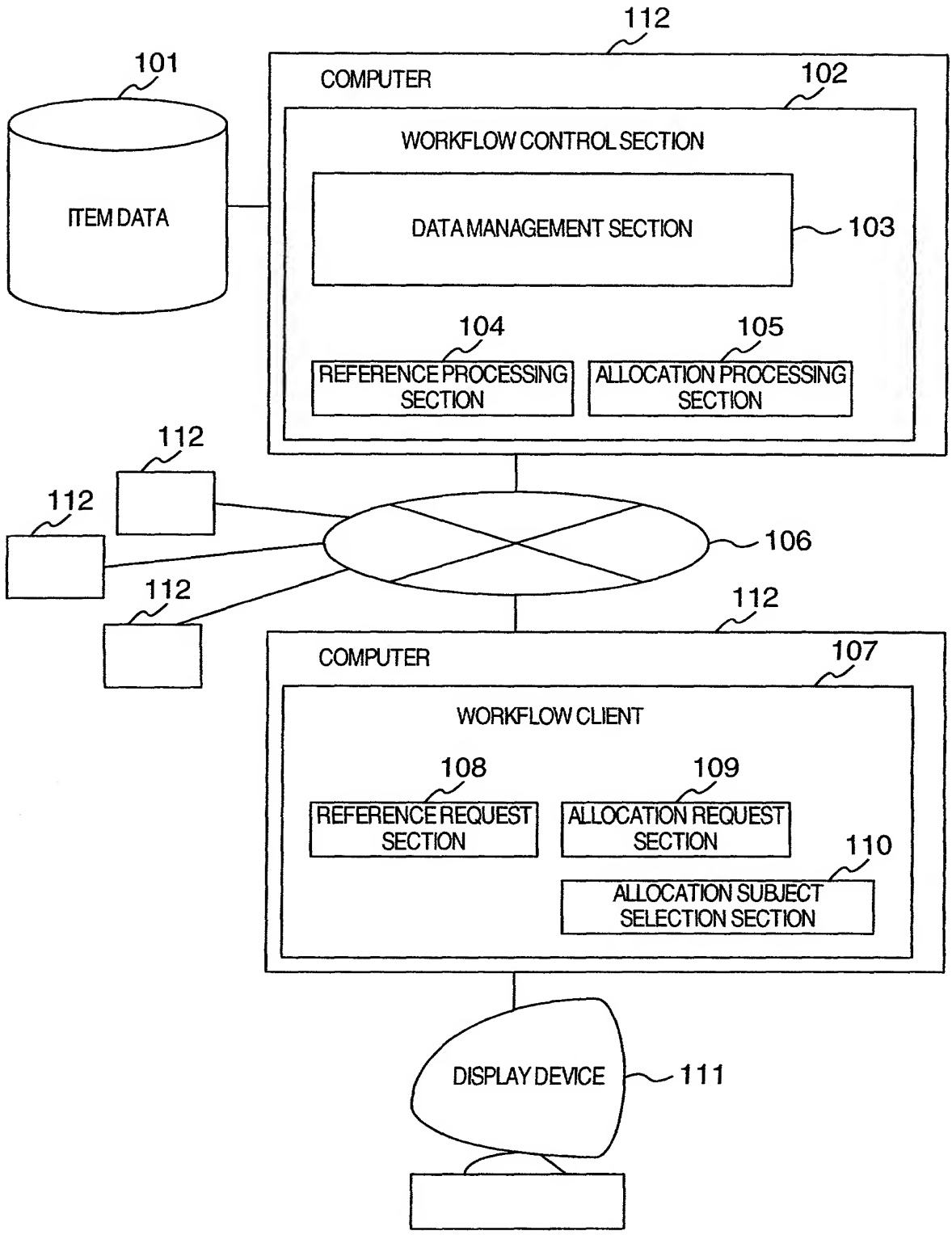
112
101
COMPUTER
102
WORKFLOW CONTROL SECTION
ITEM DATA
DATA MANAGEMENT SECTION
103
104
105
REFERENCE PROCESSING SECTION
ALLOCATION PROCESSING SECTION
112
112
106
112
112
COMPUTER
107
WORKFLOW CLIENT
108
109
REFERENCE REQUEST SECTION
ALLOCATION REQUEST SECTION
110
ALLOCATION SUBJECT SELECTION SECTION
DISPLAY DEVICE
111

FIG.2

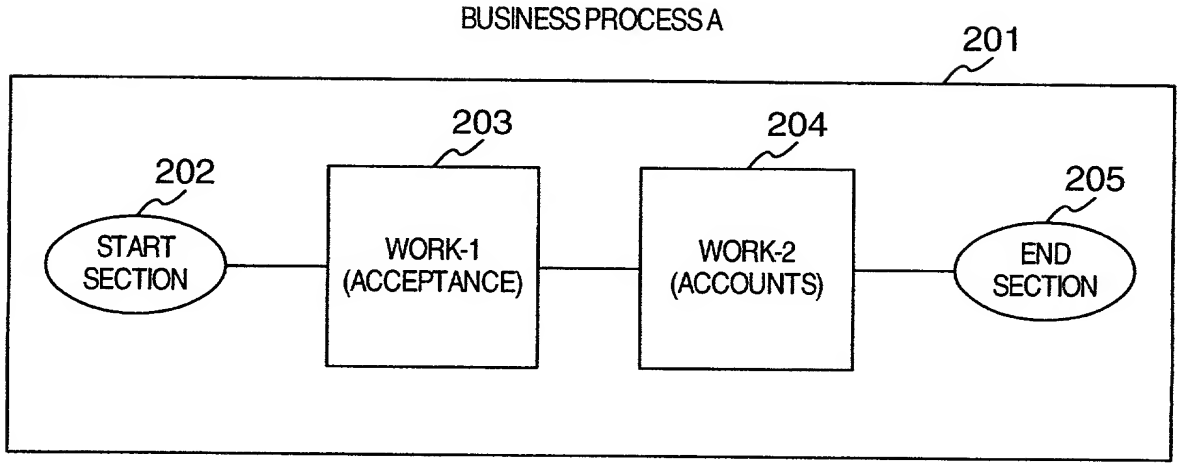

FIG.3

301 ITEM ID	302 ITEM NAME	303 BUSINESS PROCESS NAME	304 STATUS	305 WORKER
1001	ITEM NAME 1	BUSINESS PROCESS A	WORK-2 AND UNDER EXECUTION	WORKER A
1002	ITEM NAME 2	BUSINESS PROCESS A	WORK-1 AND NOT YET EXECUTED	—
1003	ITEM NAME 3	BUSINESS PROCESS A	WORK-2 AND NOT YET EXECUTED	—
1004	ITEM NAME 4	BUSINESS PROCESS A	WORK-2 AND NOT YET EXECUTED	—
1005	ITEM NAME 5	BUSINESS PROCESS A	WORK-1 AND NOT YET EXECUTED	—

FIG.4

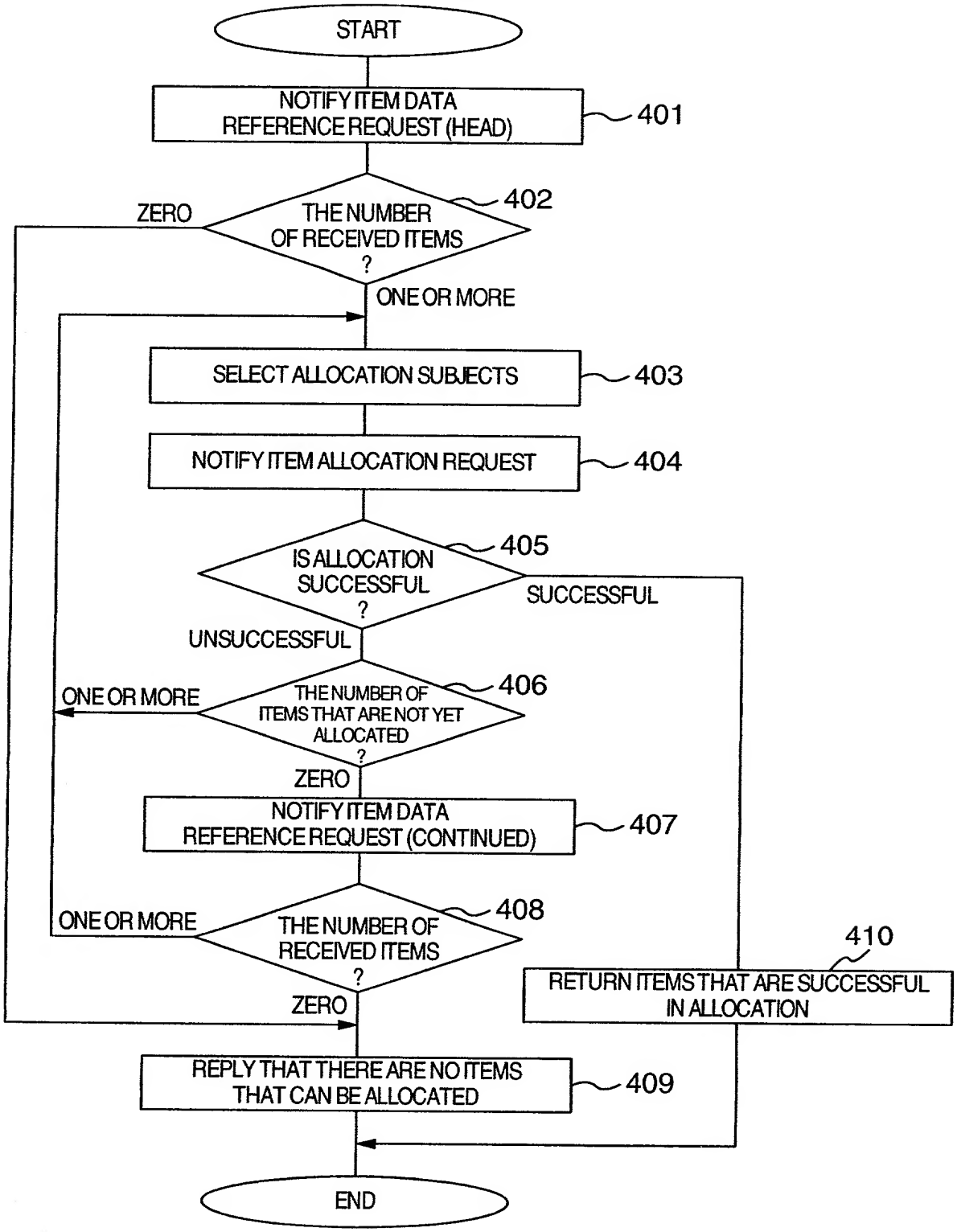
START
NOTIFY ITEM DATA REFERENCE REQUEST (HEAD)
401
THE NUMBER OF RECEIVED ITEMS ?
402
ZERO
ONE OR MORE
SELECT ALLOCATION SUBJECTS
403
NOTIFY ITEM ALLOCATION REQUEST
404
IS ALLOCATION SUCCESSFUL ?
405
SUCCESSFUL
UNSUCCESSFUL
THE NUMBER OF ITEMS THAT ARE NOT YET ALLOCATED ?
406
ONE OR MORE
ZERO
NOTIFY ITEM DATA REFERENCE REQUEST (CONTINUED)
407
THE NUMBER OF RECEIVED ITEMS ?
408
ONE OR MORE
ZERO
410
RETURN ITEMS THAT ARE SUCCESSFUL IN ALLOCATION
REPLY THAT THERE ARE NO ITEMS THAT CAN BE ALLOCATED
409
END

FIG.5

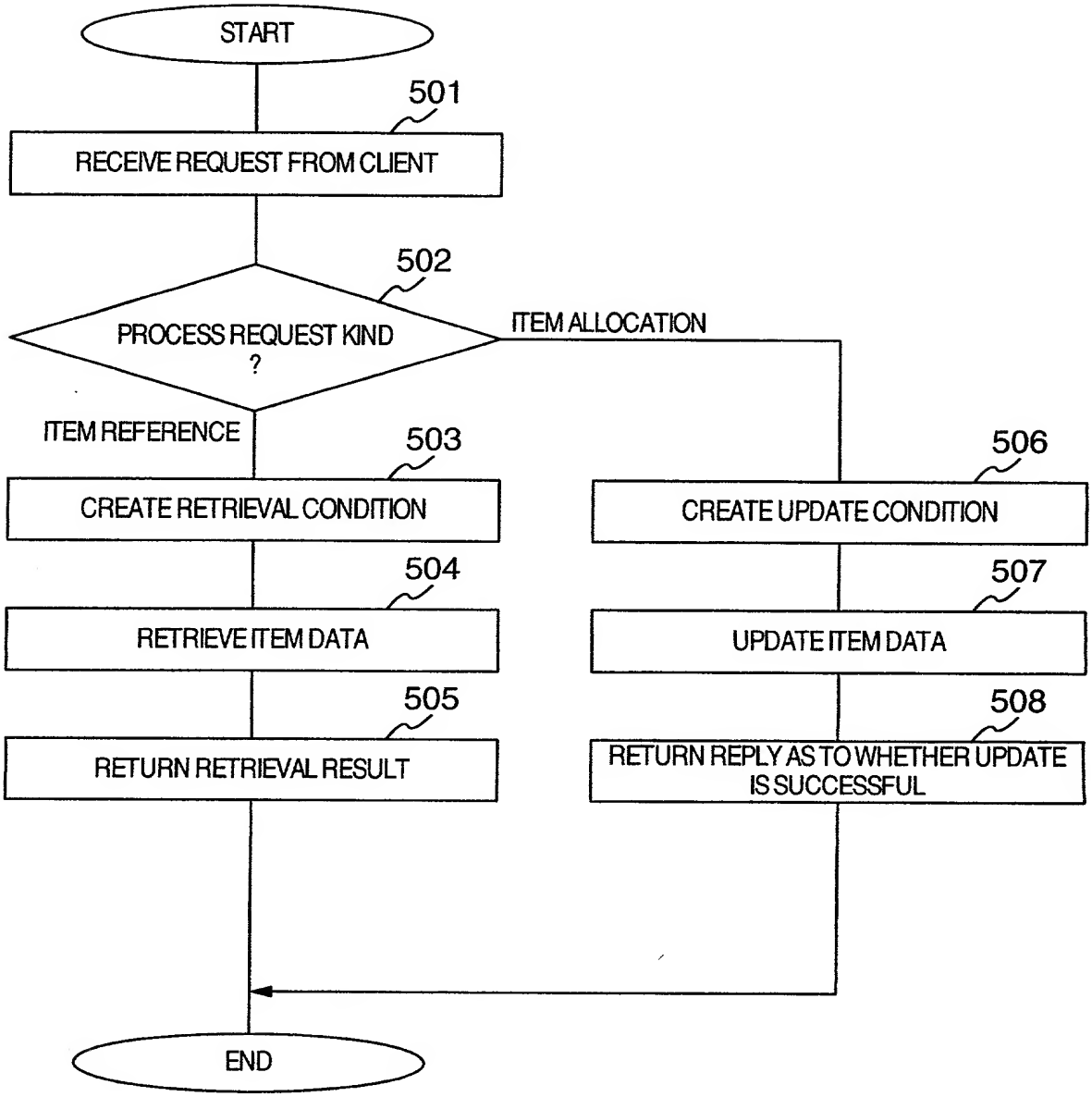
START
501
RECEIVE REQUEST FROM CLIENT
502
PROCESS REQUEST KIND ?
ITEM ALLOCATION
ITEM REFERENCE
503
CREATE RETRIEVAL CONDITION
504
RETRIEVE ITEM DATA
505
RETURN RETRIEVAL RESULT
506
CREATE UPDATE CONDITION
507
UPDATE ITEM DATA
508
RETURN REPLY AS TO WHETHER UPDATE IS SUCCESSFUL
END

FIG.6

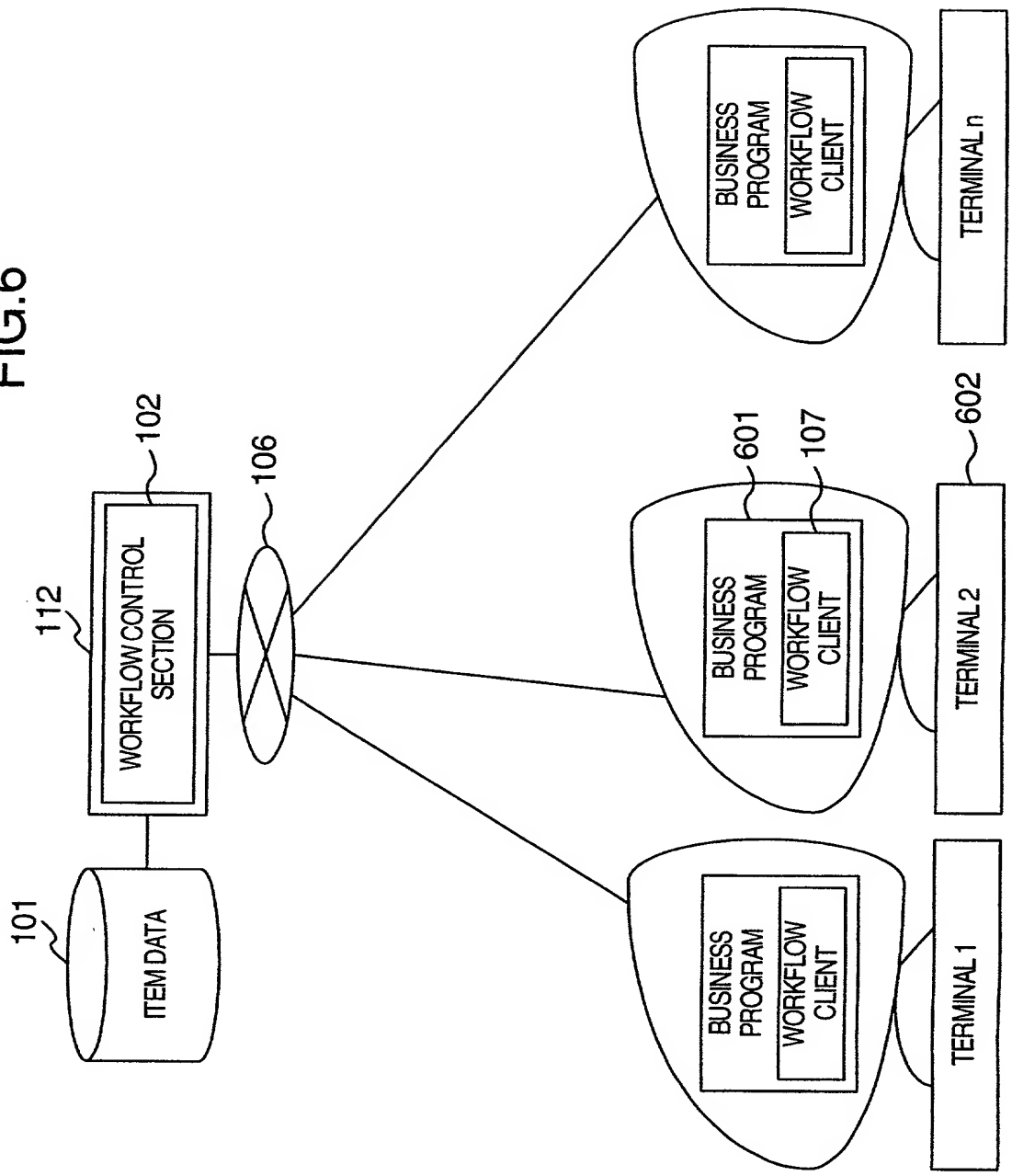
101
ITEM DATA
112
WORKFLOW CONTROL SECTION
102
106
BUSINESS PROGRAM
WORKFLOW CLIENT
TERMINAL 1
601
107
BUSINESS PROGRAM
WORKFLOW CLIENT
602
TERMINAL 2
BUSINESS PROGRAM
WORKFLOW CLIENT
TERMINAL n

FIG.7

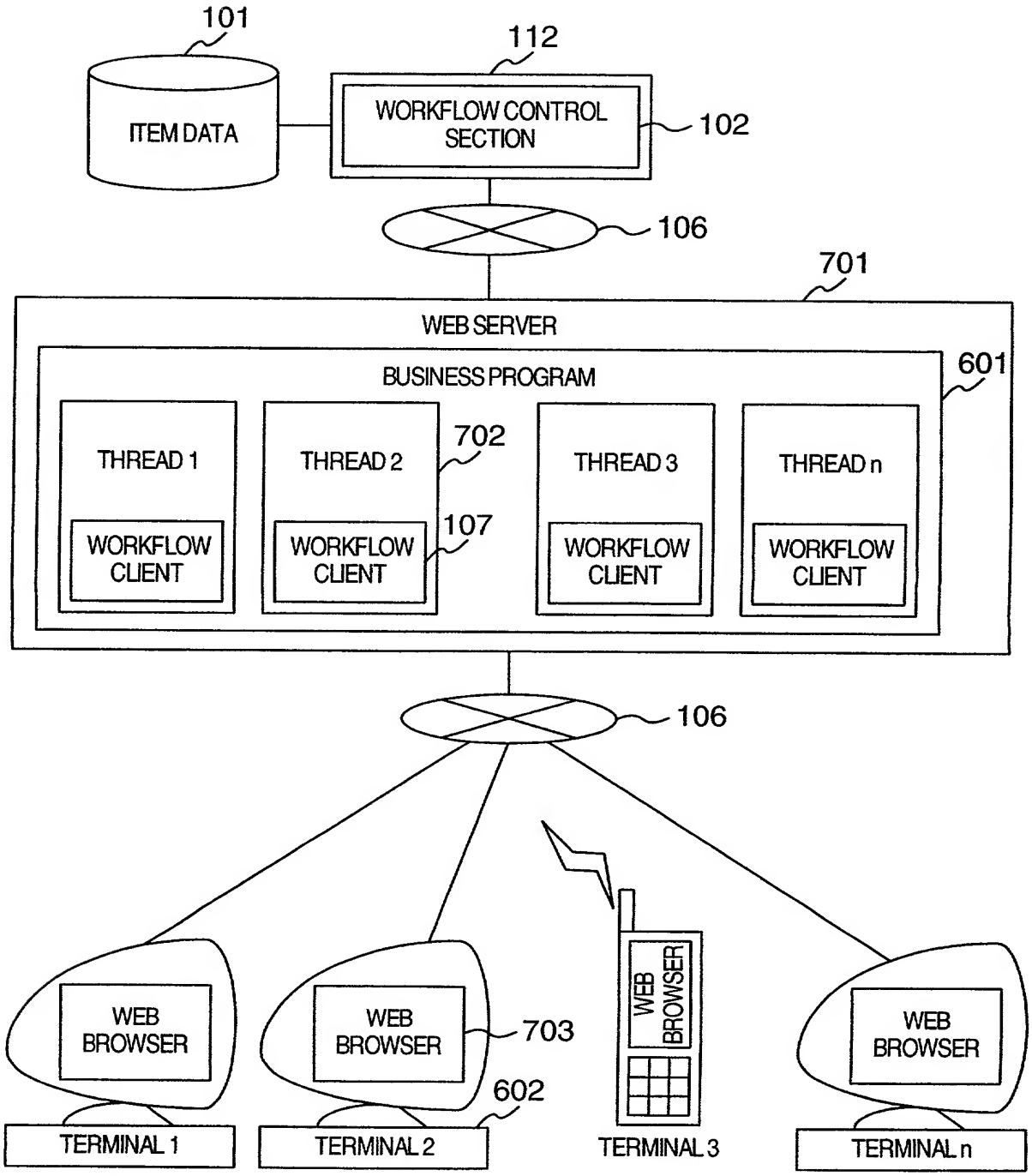
101
112
ITEM DATA
WORKFLOW CONTROL SECTION
102
106
701
WEB SERVER
601
BUSINESS PROGRAM
THREAD 1
THREAD 2
702
THREAD 3
THREAD n
WORKFLOW CLIENT
107
WORKFLOW CLIENT
WORKFLOW CLIENT
WORKFLOW CLIENT
106
WEB BROWSER
WEB BROWSER
703
602
WEB BROWSER
WEB BROWSER
TERMINAL 1
TERMINAL 2
TERMINAL 3
TERMINAL n

FIG.8

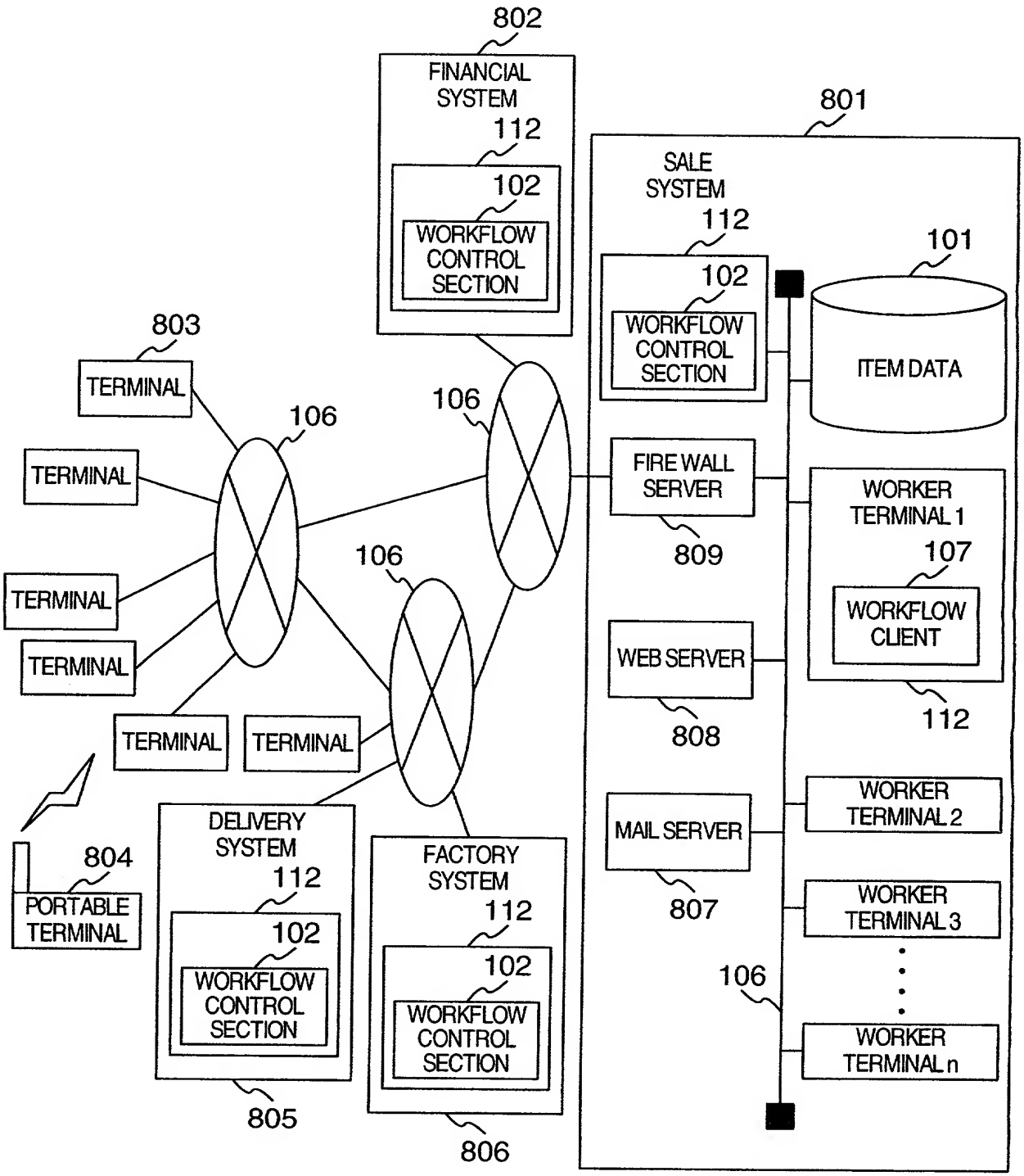
802
FINANCIAL SYSTEM
112
102
WORKFLOW CONTROL SECTION
801
SALE SYSTEM
112
102
WORKFLOW CONTROL SECTION
101
ITEM DATA
803
TERMINAL
TERMINAL
TERMINAL
TERMINAL
TERMINAL
TERMINAL
106
106
106
FIRE WALL SERVER
809
WORKER TERMINAL 1
107
WORKFLOW CLIENT
112
WEB SERVER
808
MAIL SERVER
807
WORKER TERMINAL 2
WORKER TERMINAL 3
WORKER TERMINAL n
106
804
PORTABLE TERMINAL
DELIVERY SYSTEM
112
102
WORKFLOW CONTROL SECTION
805
FACTORY SYSTEM
112
102
WORKFLOW CONTROL SECTION
806

FIG.9

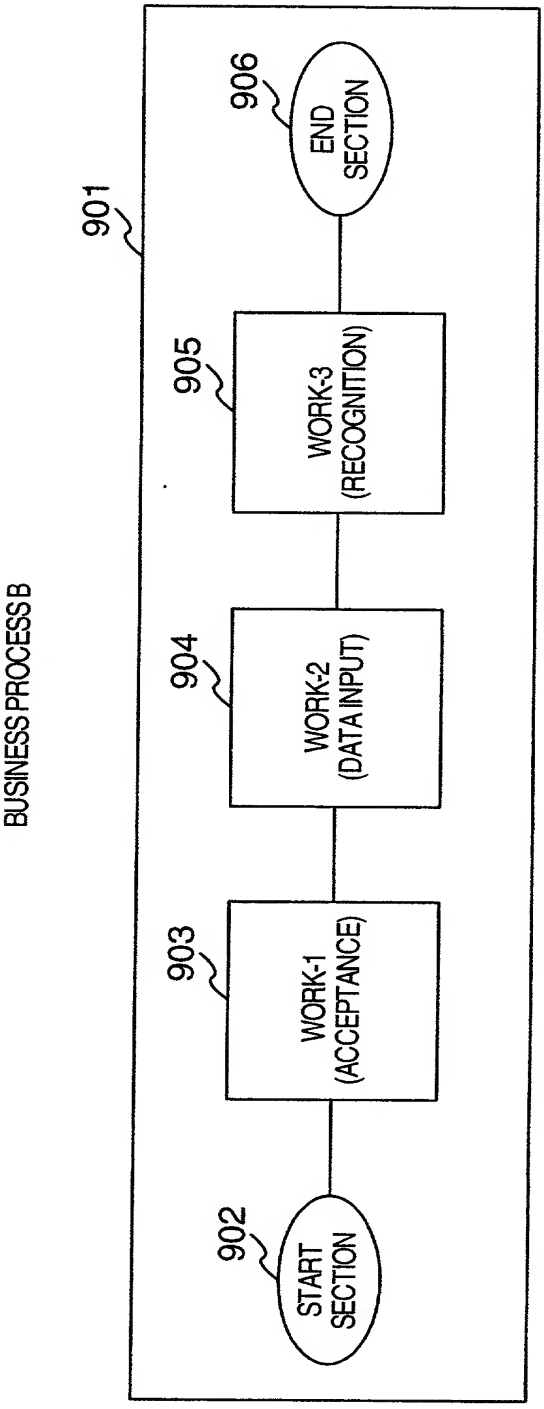
BUSINESS PROCESS B
901
902
START SECTION
903
WORK-1 (ACCEPTANCE)
904
WORK-2 (DATA INPUT)
905
WORK-3 (RECOGNITION)
906
END SECTION

FIG.10

EXAMPLE OF ITEM EXTRACTION CONDITION TABLE CORRESPONDING TO BUSINESS PROCESS B

1001 WORK NAME	1002 ITEM STATUS	1003 ACQUISITION RANGE CONDITION	1004 SELECTION KEY
WORK-1 (ACCEPTANCE)	NOT YET EXECUTED	(IN THE ORDER OF ASCENDING ITEM ID) AND (THREE HUNDRED HIGH-ORDER ITEMS)	IP ADDRESS OF WORKER TERMINAL
WORK-2 (DATA INPUT)	NOT YET ALLOCATED	(IN THE ORDER OF ASCENDING ITEM ID) AND (TWO HUNDRED HIGH-ORDER ITEMS)	THREAD ID OF WORKFLOW CLIENT PROGRAM
WORK-3 (RECOGNITION)	NOT YET ALLOCATED	(IN THE ORDER OF DESCENDING PROCESSING TIME OF WORK-2) AND (FIFTY HIGH-ORDER ITEMS)	WORKER ID

FIG.11

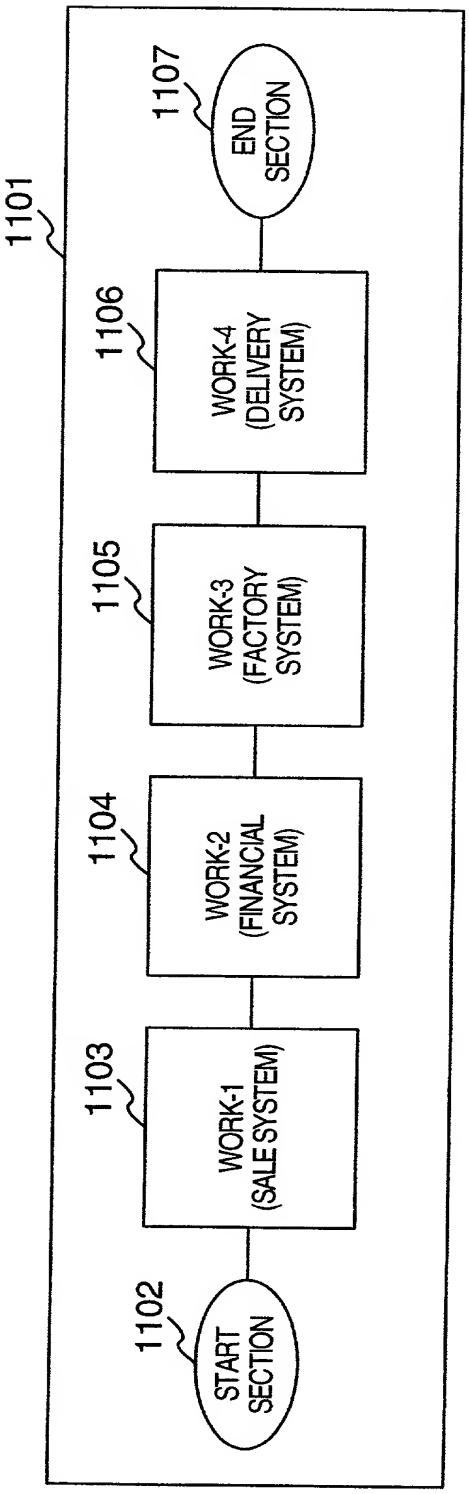
BUSINESS PROCESS C
1101
1102
START SECTION
1103
WORK-1 (SALE SYSTEM)
1104
WORK-2 (FINANCIAL SYSTEM)
1105
WORK-3 (FACTORY SYSTEM)
1106
WORK-4 (DELIVERY SYSTEM)
1107
END SECTION

FIG.12

EXAMPLE OF ITEM EXTRACTION CONDITION TABLE CORRESPONDING TO BUSINESS PROCESS C

1201 WORK NAME	1202 ITEM STATUS	1203 ACQUISITION RANGE CONDITION	1204 SELECTION KEY
WORK-1 (SALE SYSTEM)	NOT YET EXECUTED	(IN THE ORDER OF ASCENDING ITEM ID) AND (THREE HUNDRED HIGH-ORDER ITEMS)	THREAD ID OF WORKFLOW CLIENT PROGRAM
WORK-2 (FINANCIAL SYSTEM)	NOT YET ALLOCATED	(IN THE ORDER OF ASCENDING ITEM ID) AND (TWO HUNDRED HIGH-ORDER ITEMS)	WORKER ID
WORK-3 (FACTORY SYSTEM)	NOT YET ALLOCATED	(IN THE ORDER OF ASCENDING ITEM ACCEPTANCE TIME IN FACTORY SYSTEM) AND (FIFTY HIGH-ORDER ITEMS)	IP ADDRESS OF WORKER TERMINAL
WORK-4 (DELIVERY SYSTEM)	NOT YET ALLOCATED	(IN THE ORDER OF DESCENDING PROCESSING TIME OF WORK-3) AND (FIFTY HIGH-ORDER ITEMS)	WORKER ID

FIG.13

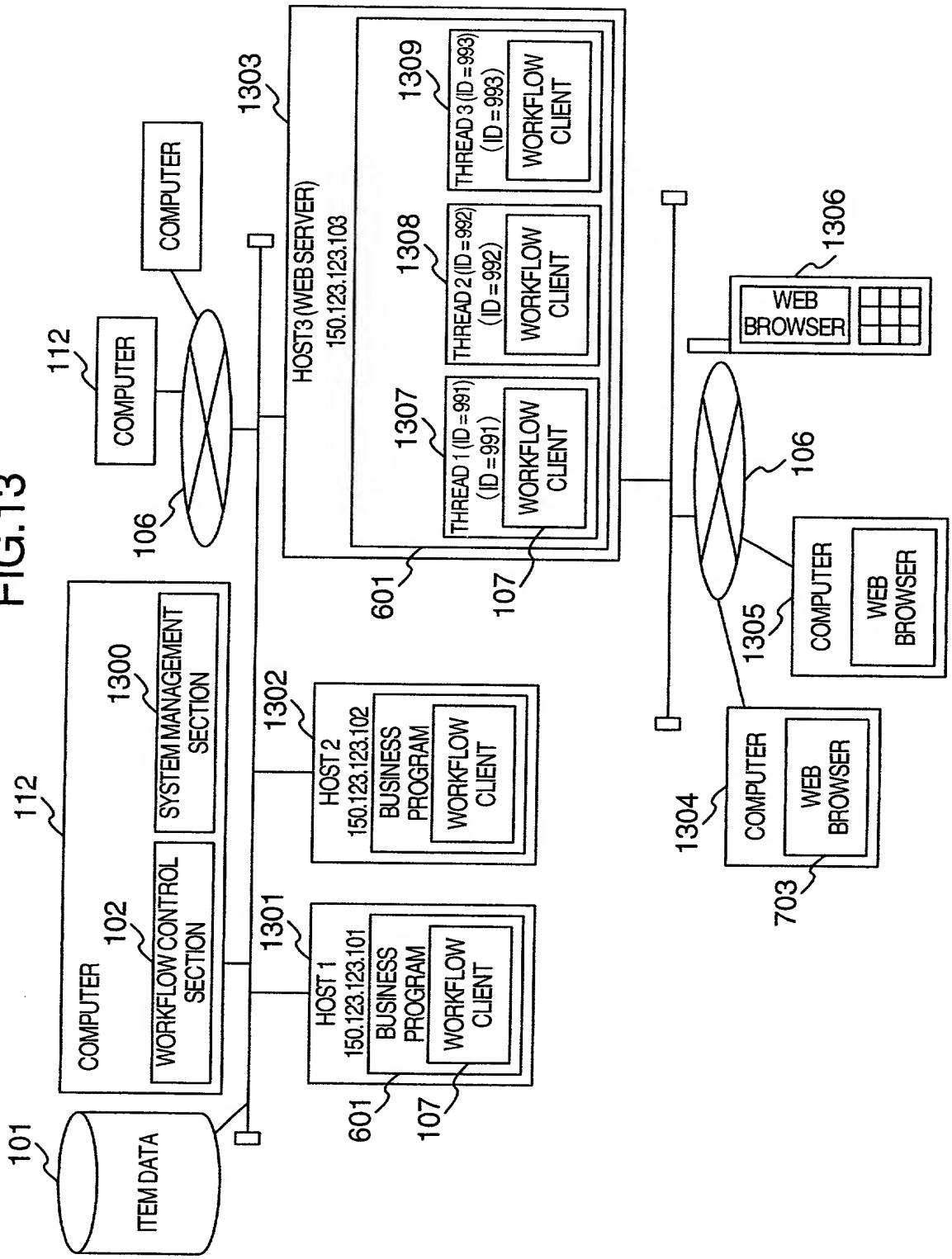
101
ITEM DATA
112
COMPUTER
102
WORKFLOW CONTROL SECTION
1300
SYSTEM MANAGEMENT SECTION
106
112
COMPUTER
COMPUTER
1301
HOST 1
150.123.123.101
BUSINESS PROGRAM
WORKFLOW CLIENT
601
107
1302
HOST 2
150.123.123.102
BUSINESS PROGRAM
WORKFLOW CLIENT
1303
HOST3 (WEB SERVER)
150.123.123.103
1307
THREAD 1 (ID=991)
(ID=991)
WORKFLOW CLIENT
1308
THREAD 2 (ID=992)
(ID=992)
WORKFLOW CLIENT
1309
THREAD 3 (ID=993)
(ID=993)
WORKFLOW CLIENT
601
107
106
1306
WEB BROWSER
1305
COMPUTER
WEB BROWSER
1304
COMPUTER
WEB BROWSER
703

FIG.14

1401 TERMINAL NAME	1402 IP ADDRESS	1403 OPERATING PROGRAM INFORMATION	1404 SELECTION KEY
HOST 1	150.123.123.101	BUSINESS PROGRAM	THREE LOW-ORDER DIGITS OF IP ADDRESS
HOST 2	150.123.123.102	BUSINESS PROGRAM	THREE LOW-ORDER DIGITS OF IP ADDRESS
HOST 3	150.123.123.103	WEB SERVER PROGRAM	—
		BUSINESS PROGRAM (PARENT THREAD) ID = 990	—
		BUSINESS PROGRAM (CHILD THREAD 1) ID = 991	THREAD ID
		BUSINESS PROGRAM (CHILD THREAD 2) ID = 992	THREAD ID
		BUSINESS PROGRAM (CHILD THREAD 3) ID = 993	THREAD ID